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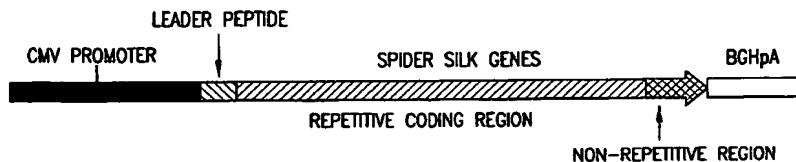
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(54) Title: METHODS OF PRODUCING SILK POLYPEPTIDES AND PRODUCTS THEREOF

DNA EXPRESSION CONSTRUCTS USED TO PRODUCE RC-DRAGLINE SPIDER SILKS IN MAMMALIAN CELLS.



SPIDER SILK GENES EXPRESSED	cDNA SIZE (kb)	NON-REPETITIVE 3'-END (kb)	"TAG"	PREDICTED RC-SPIDER SILK SIZE	
				# AMINO ACIDS	kD
ADF-3 His	1.7	0.3	myc, His(8)	677	63
ADF-3	1.7	"	-	652	60
ADF-33	3.4	"	-	1090	110
ADF-333	4.7	"	-	1568	140
MaSp11	1.6	"	-	658	59
MaSpI	1.9	"	-	719	59
MaSpI(2)	3.6	"	-	1316	106

(57) Abstract: The invention provides a silk polypeptide comprising a plurality of repetitive units and a non-repetitive hydrophilic amino acid domain, polynucleotides and vectors encoding silk polypeptides, methods of expressing the silk polypeptide in host cells and transgenic animals, and methods of forming a biofilament comprised of silk polypeptides.

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